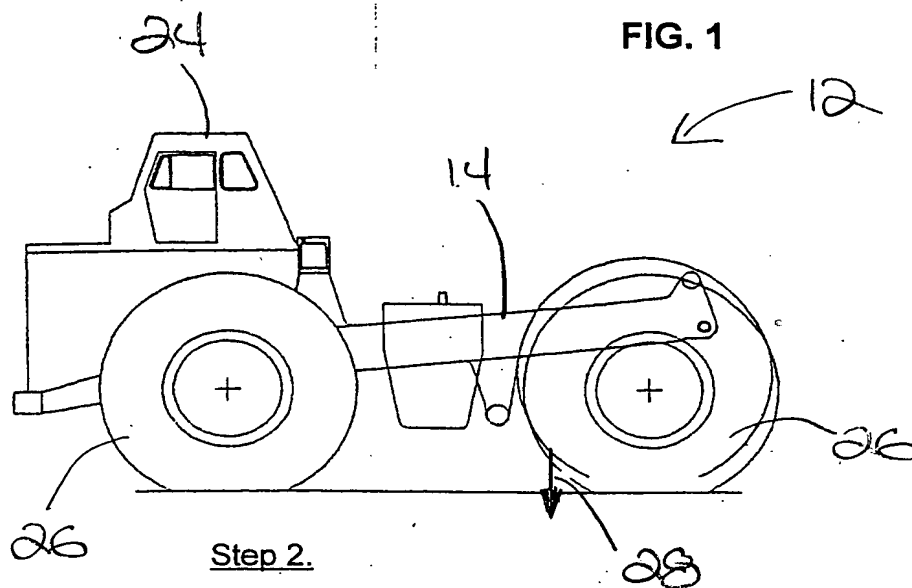
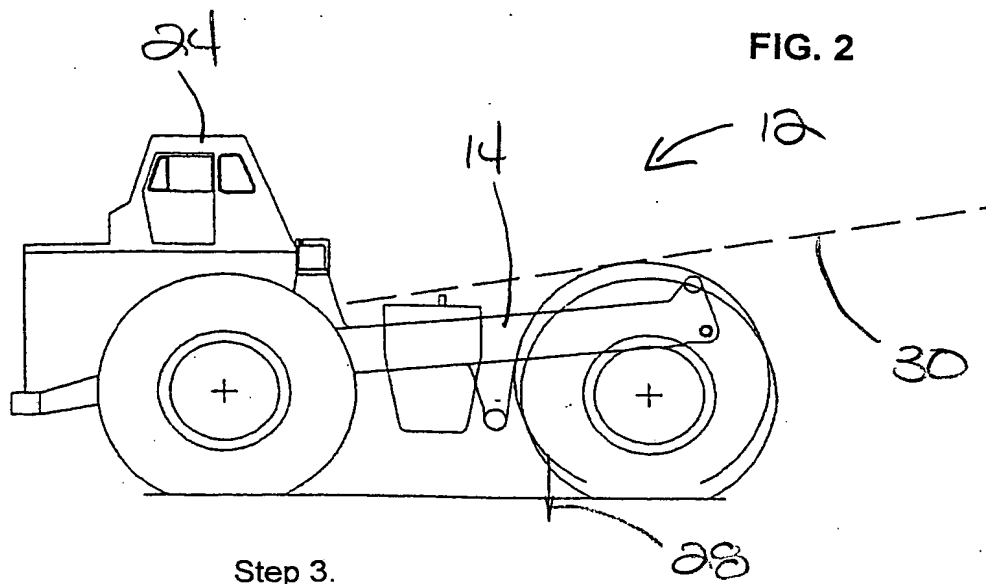


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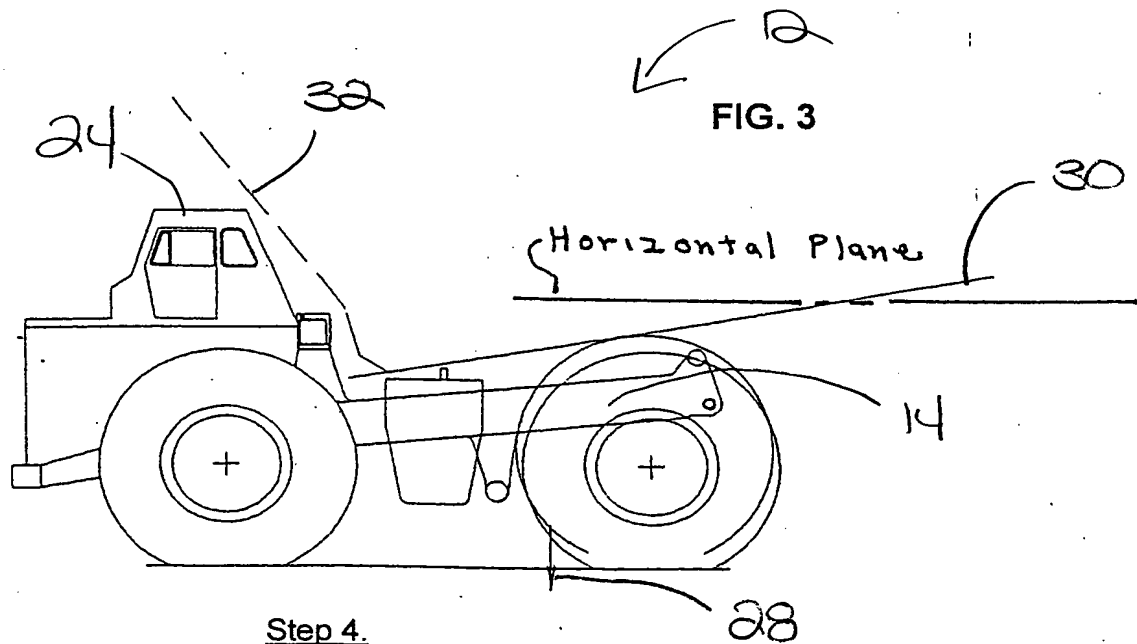


Using truck chassis empty and loaded weights establish "Load" center of gravity.



Step 3.

Establish proposed body floor line.



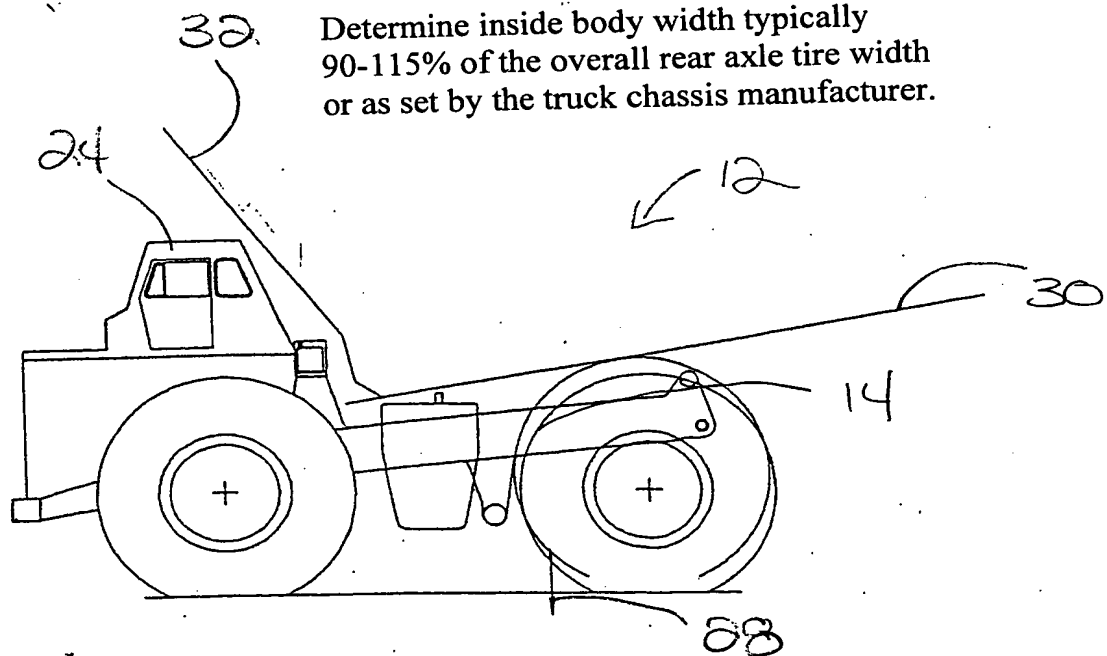
Step 4.

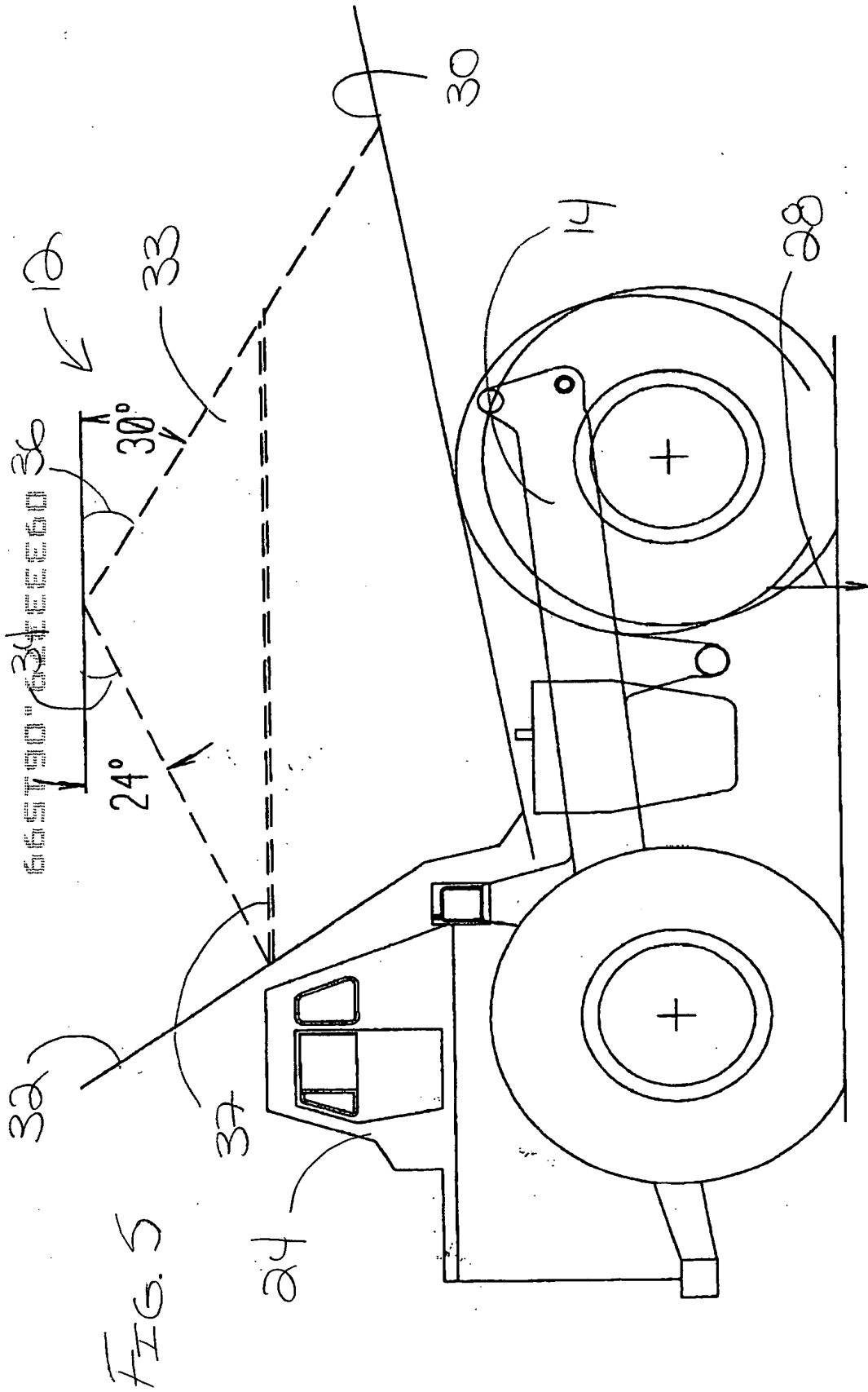
Establish proposed body front  
slope line.

FIG. 4

Step 5.

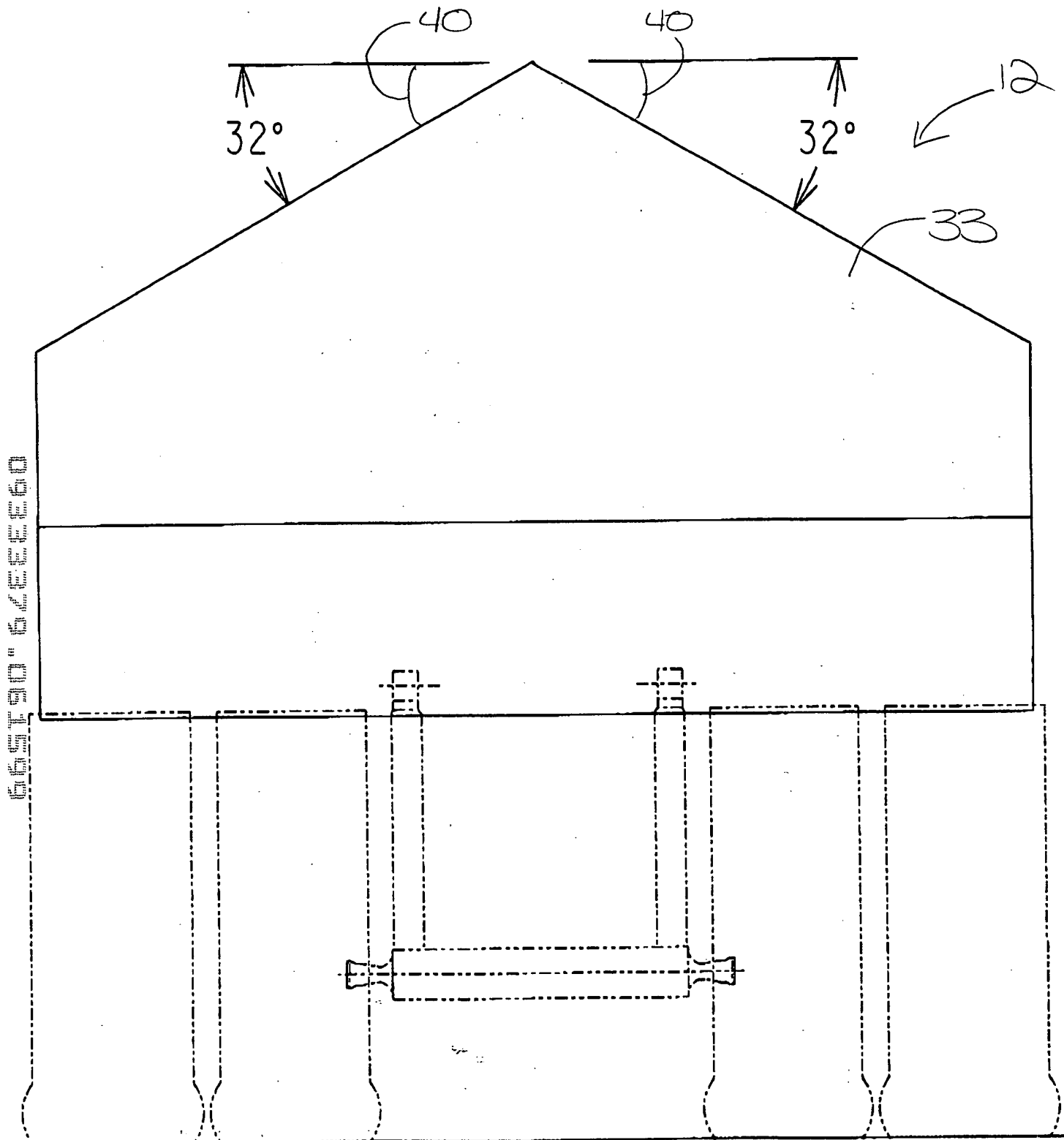
Determine inside body width typically  
90-115% of the overall rear axle tire width  
or as set by the truck chassis manufacturer.





Step 6.

Using customer specific information, develop an approximate heap profile. Determine the center of gravity of the approximate heap profile and compare it to the correct center of gravity of Step 2.



Step 6.

FIG. 6





26.7° 25.8° 24.9° 24° FRONT

65° 30' 65° 30' 65° 30' 65° 30'

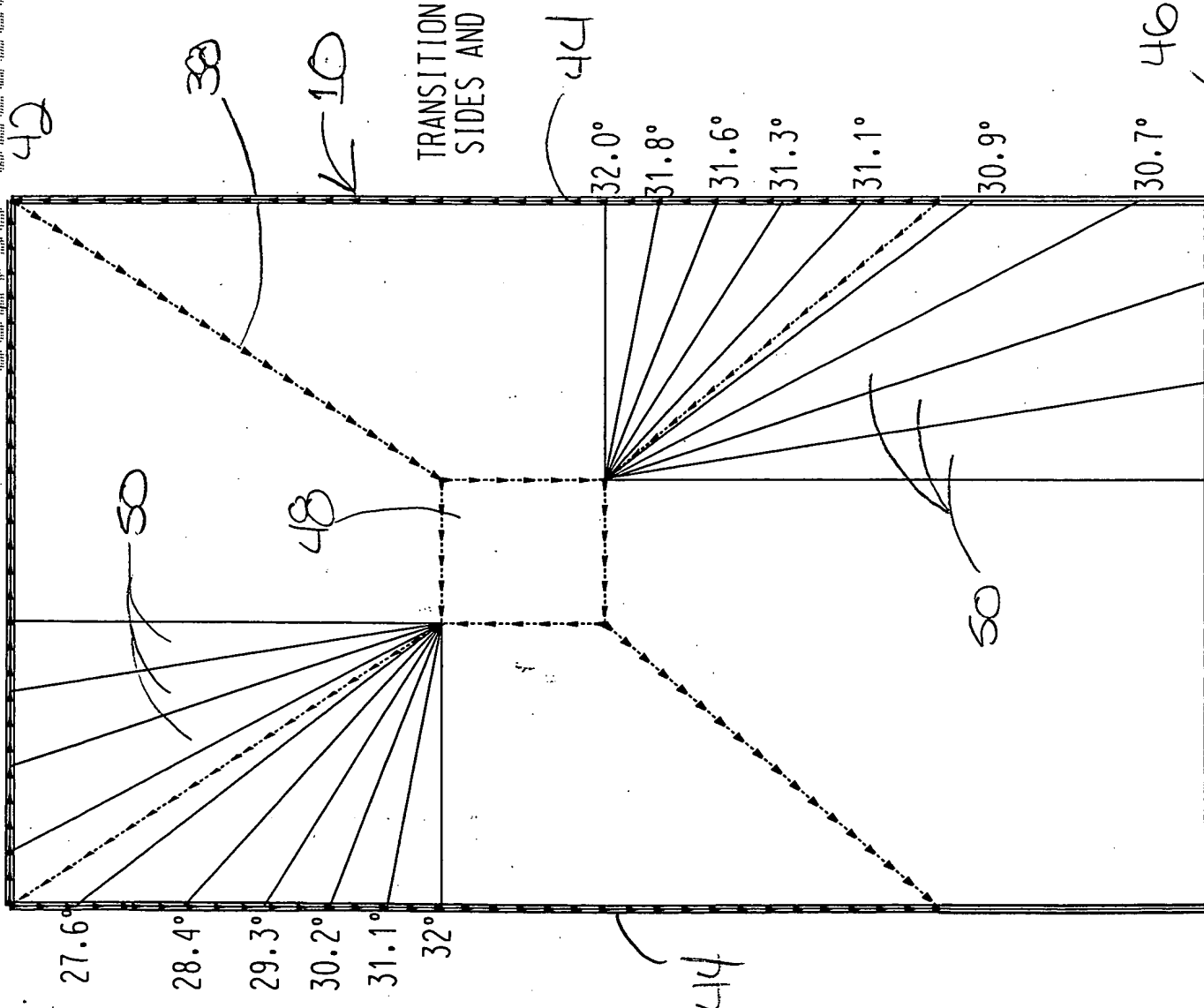


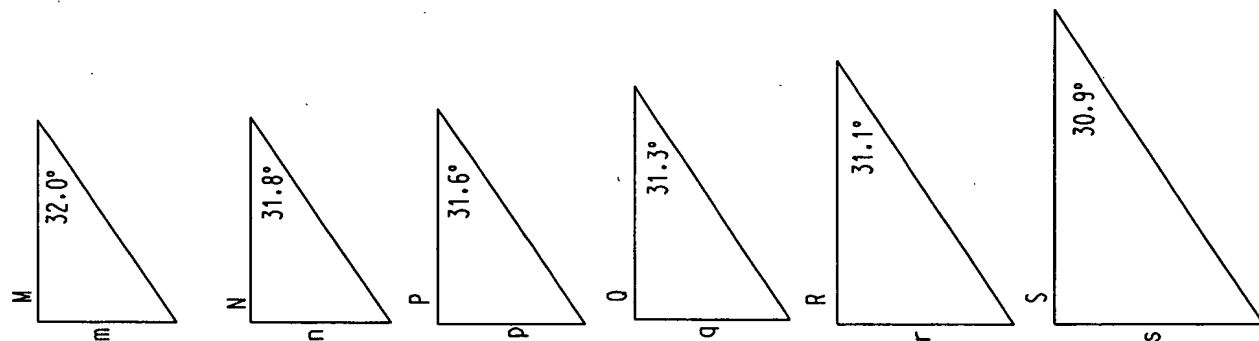
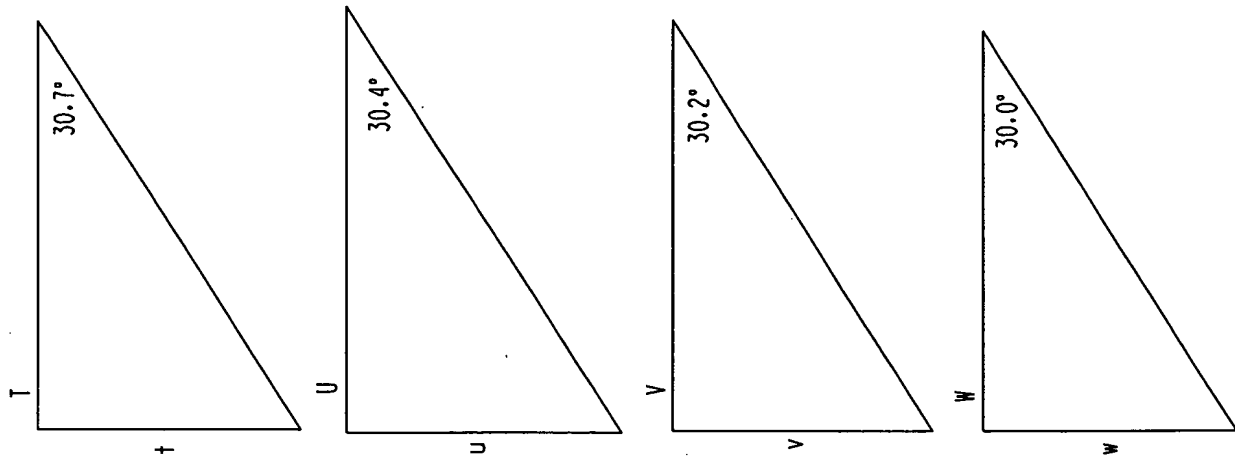
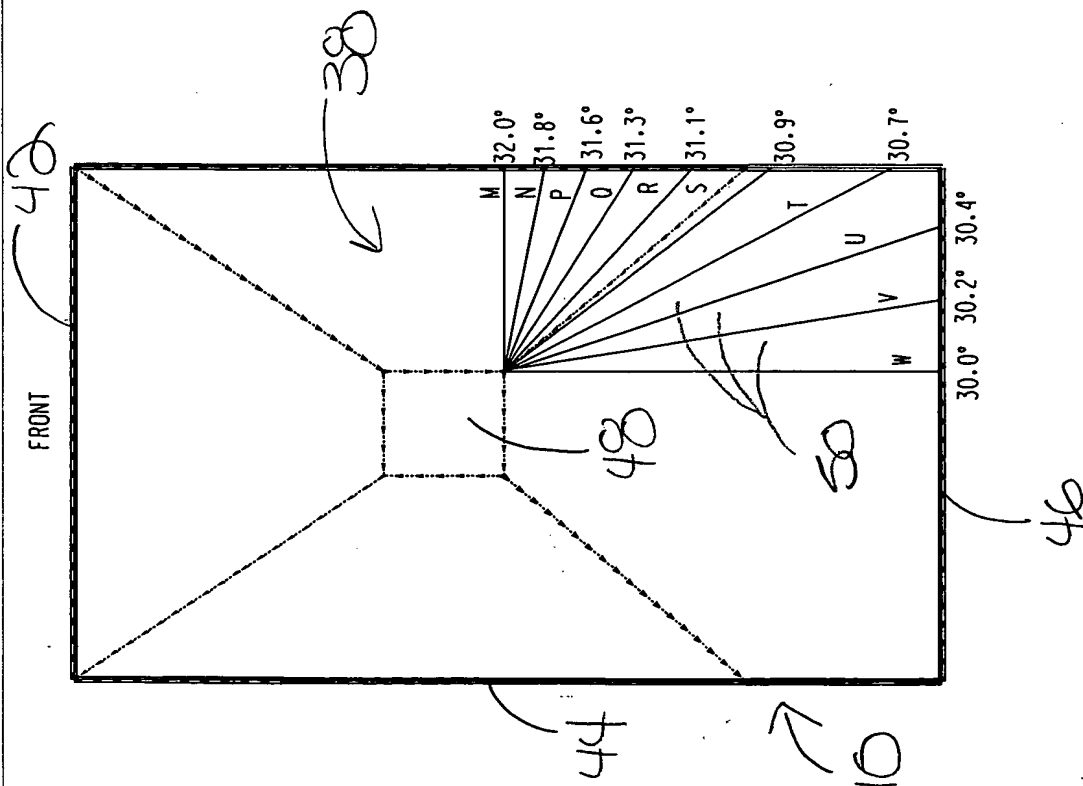
FIG. 9

Step 8, cont.

TRANSITION BETWEEN SIDES AND FRONT AND  
SIDES AND REAR ARE BROKEN INTO EQUAL  
10° SEGMENTS.







Step. 8, cont.

FIG. 10b

FIG. 10C

Step 8, cont.

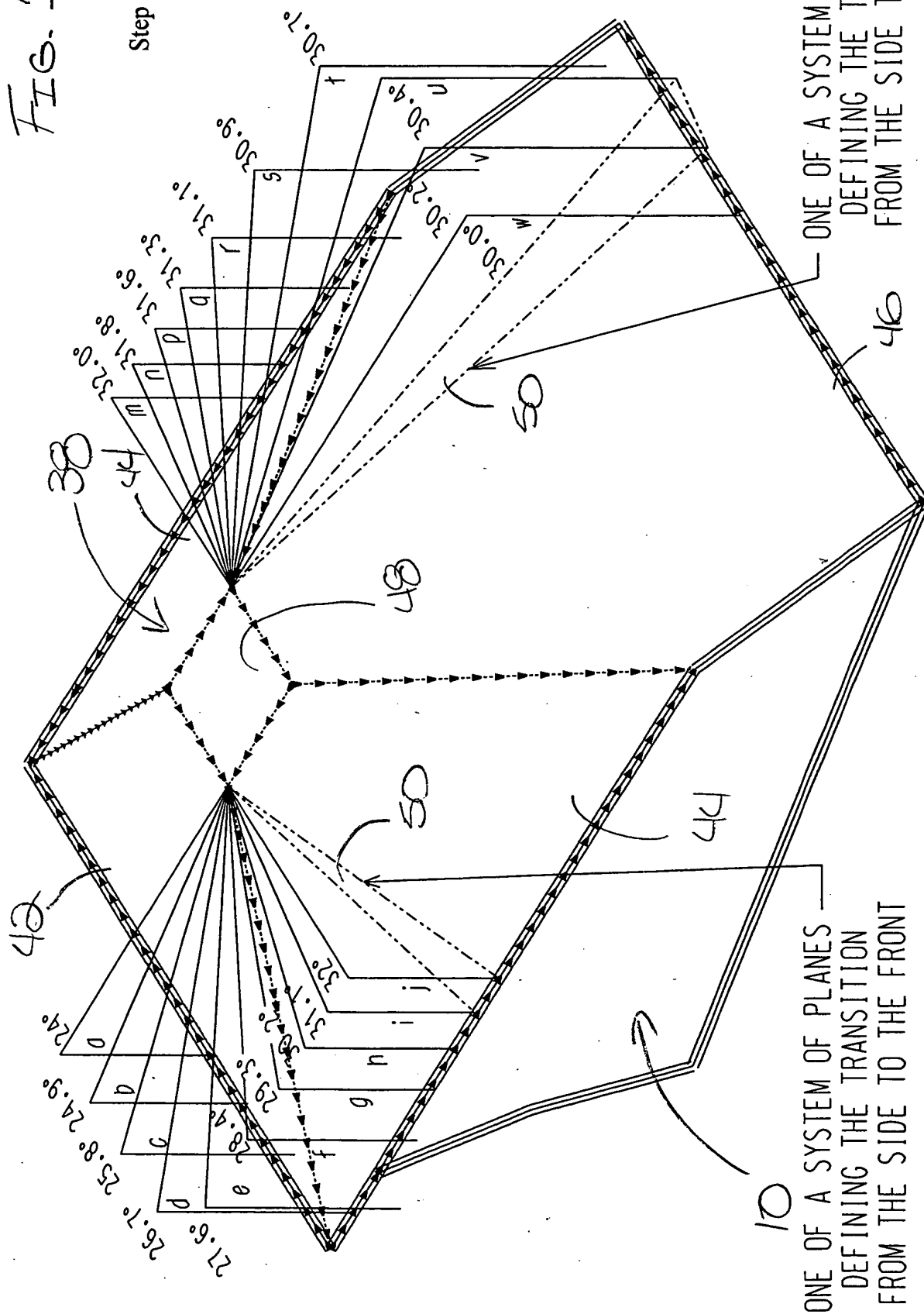


FIG. 11

Step 8, cont.

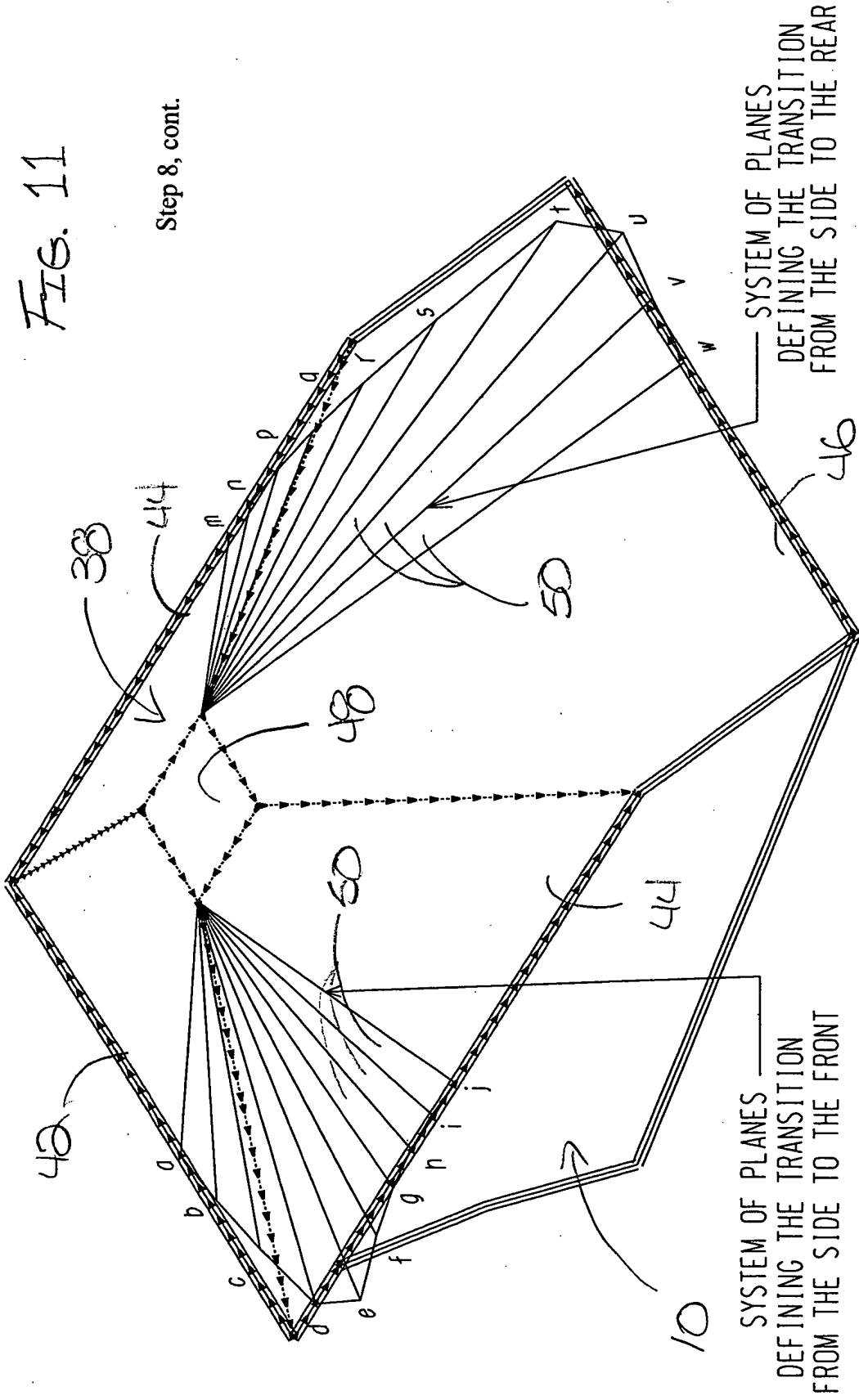


FIG. 12

Step 8, cont.

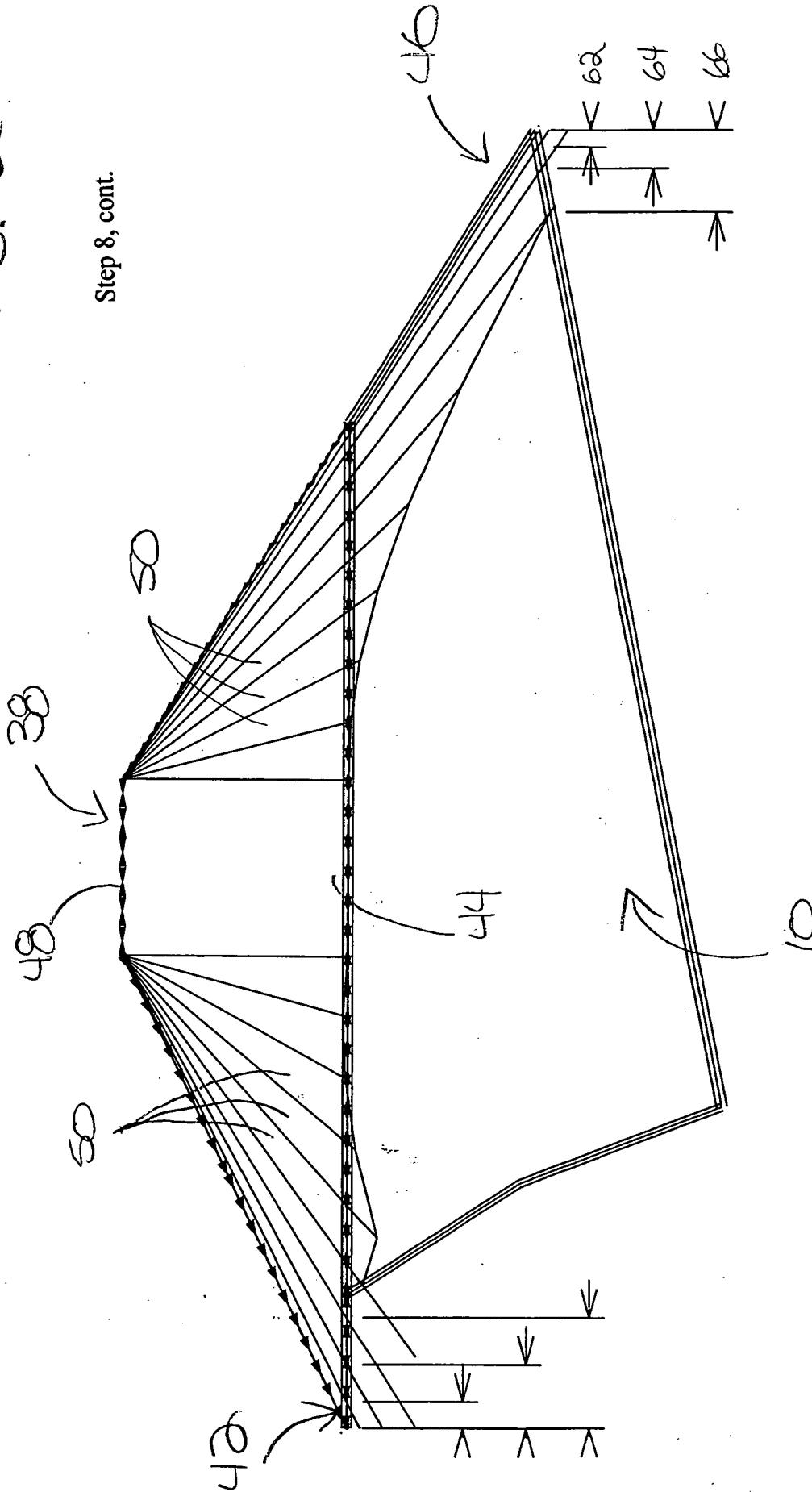


FIG. 13

Step 8, cont.

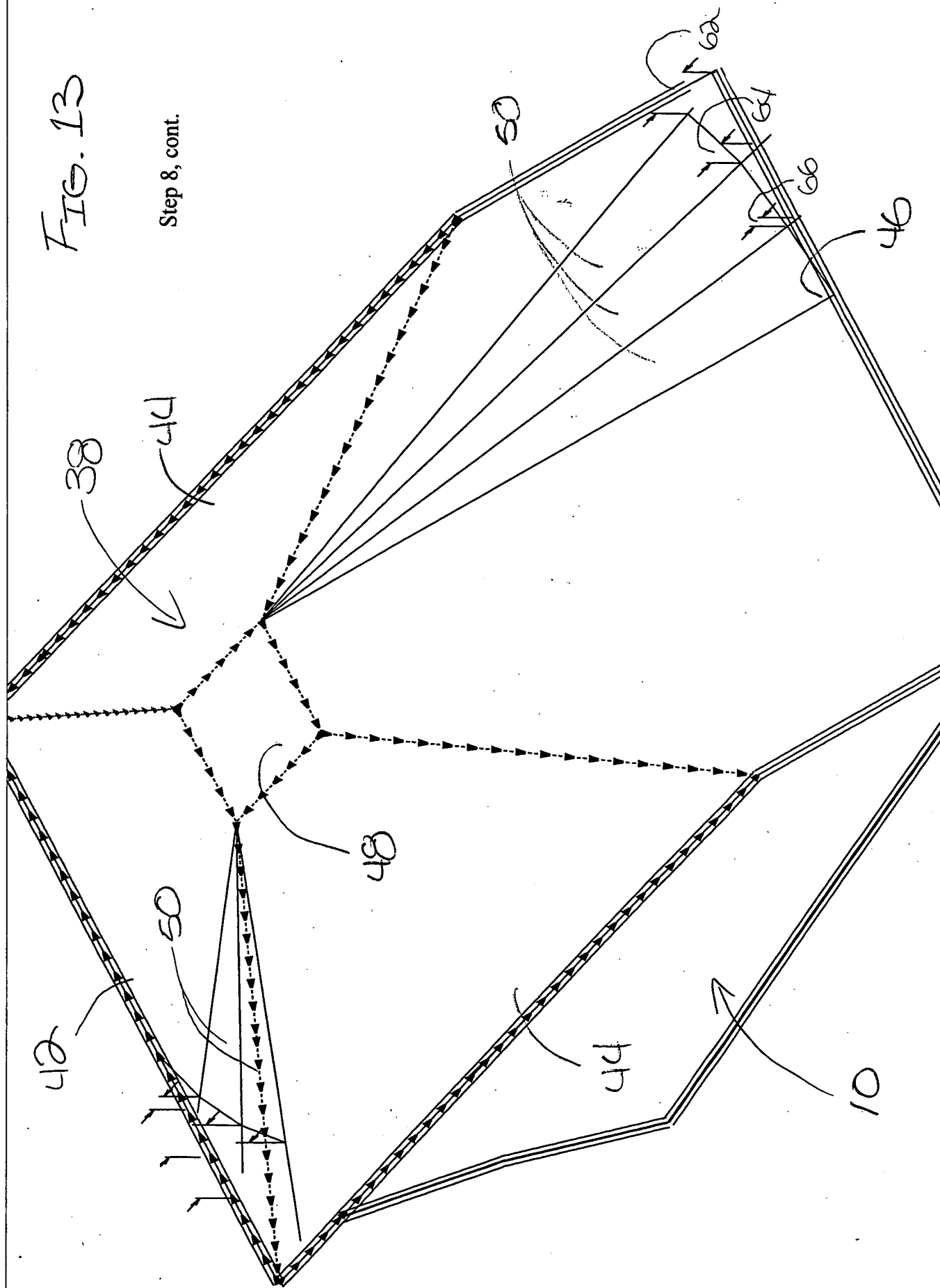
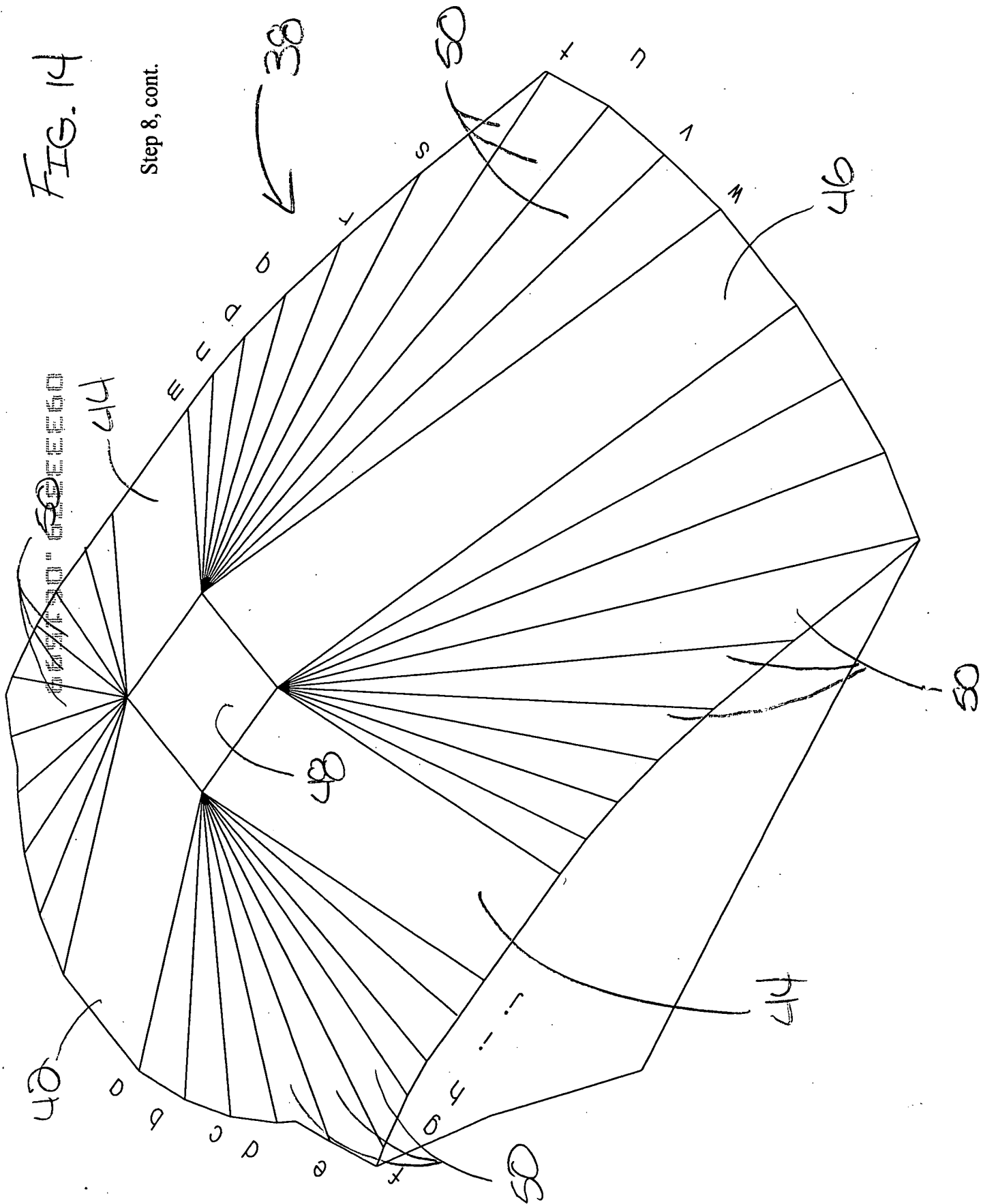
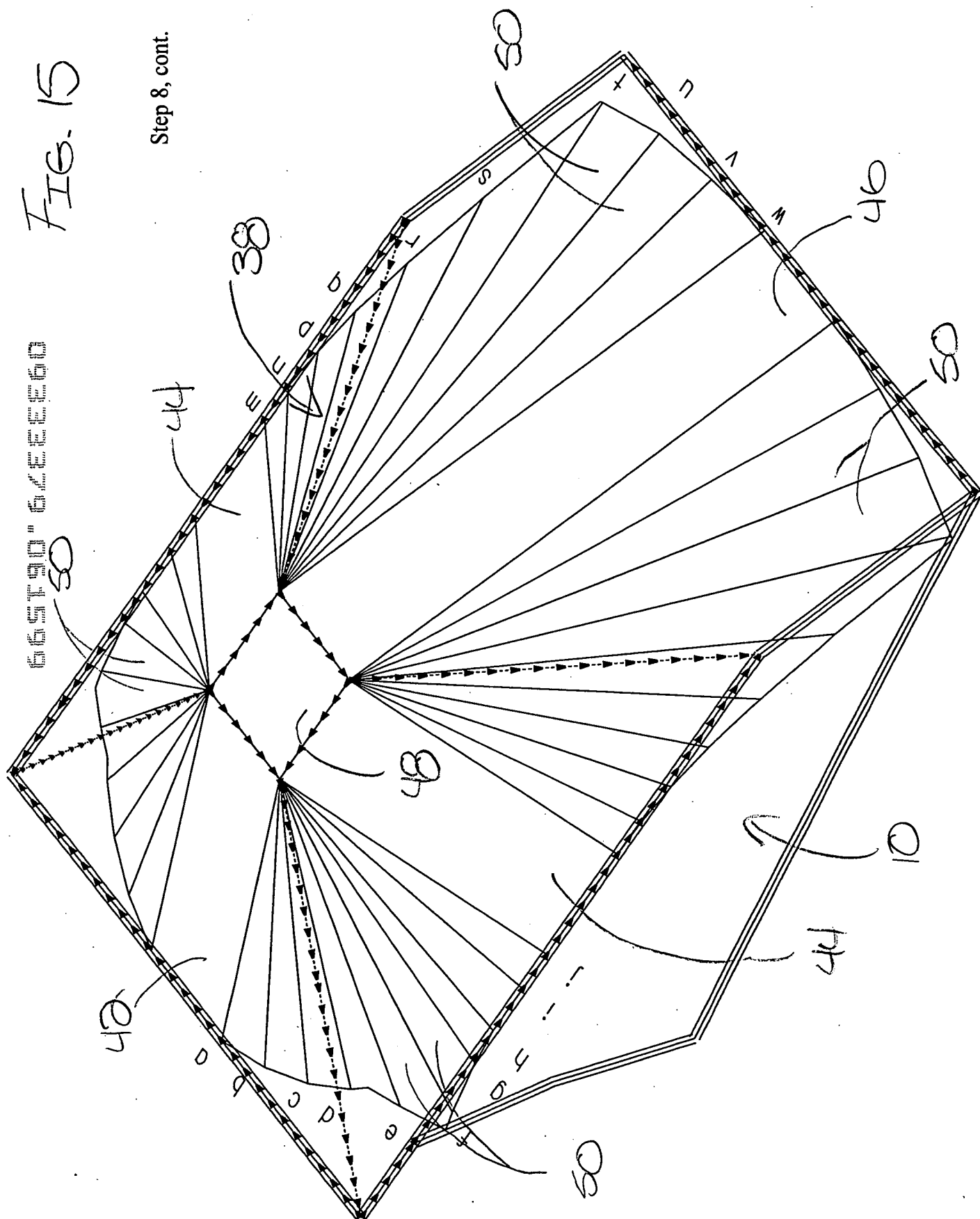


FIG. 14

Step 8, cont.



**Step 8, cont.**







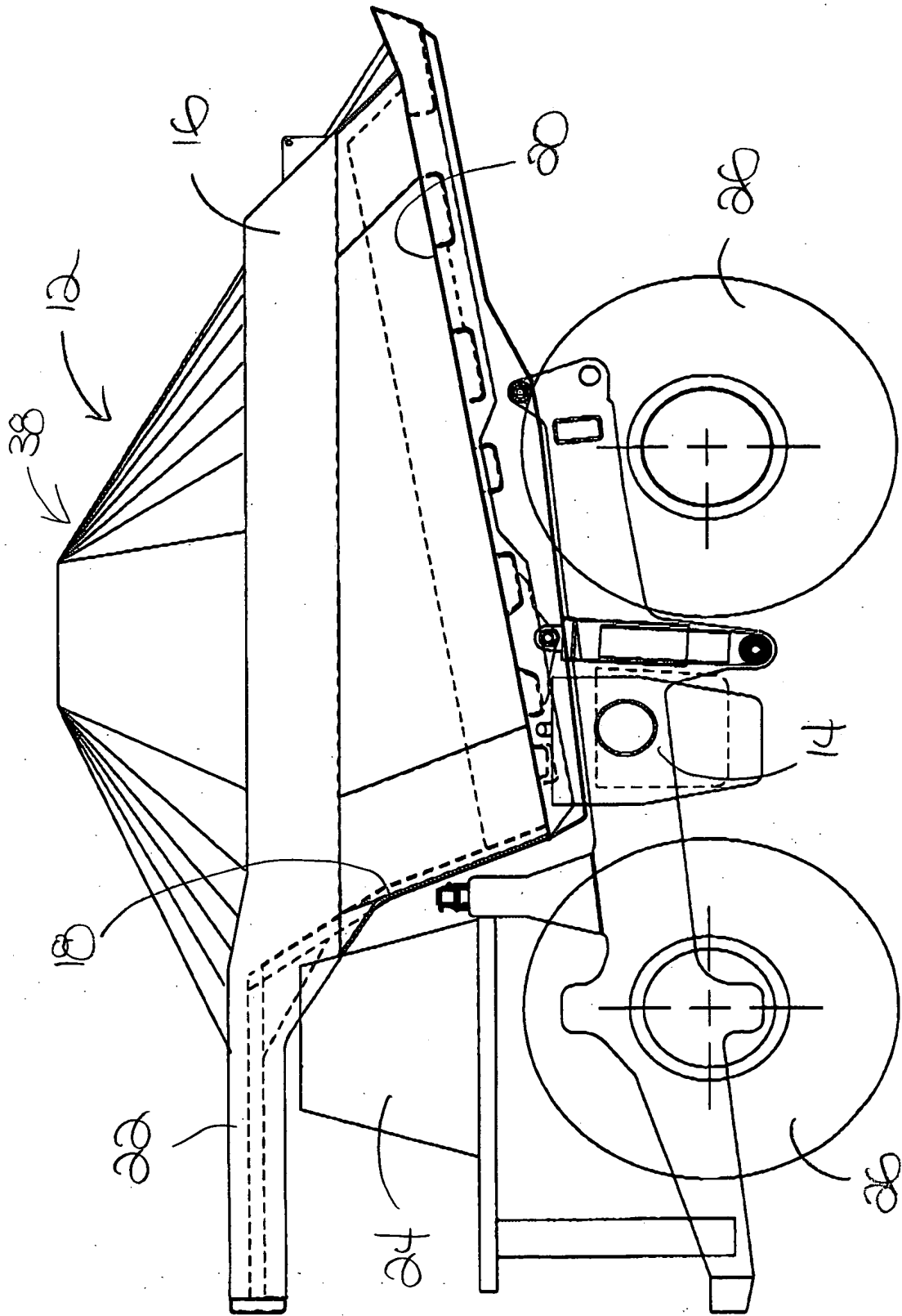
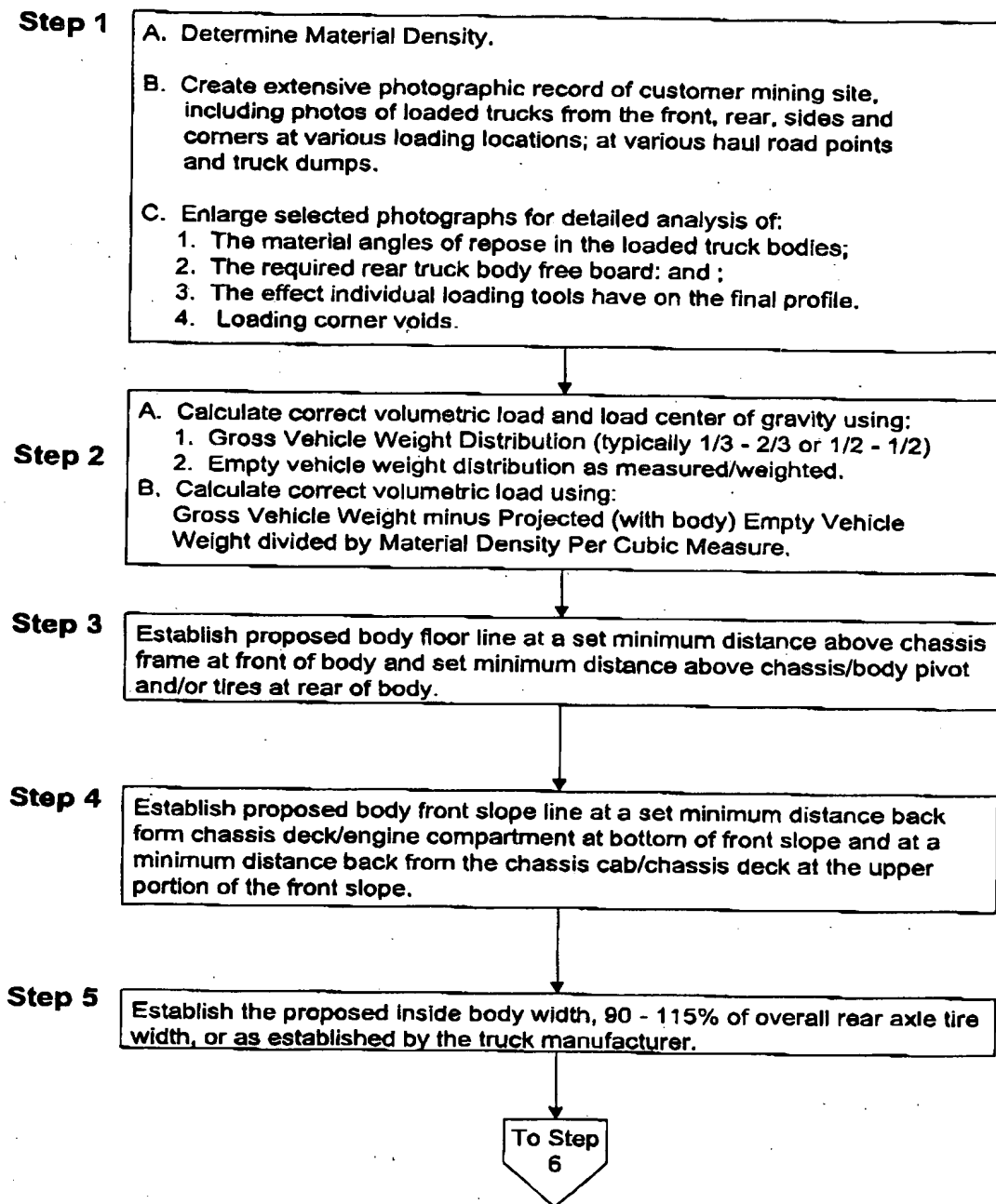
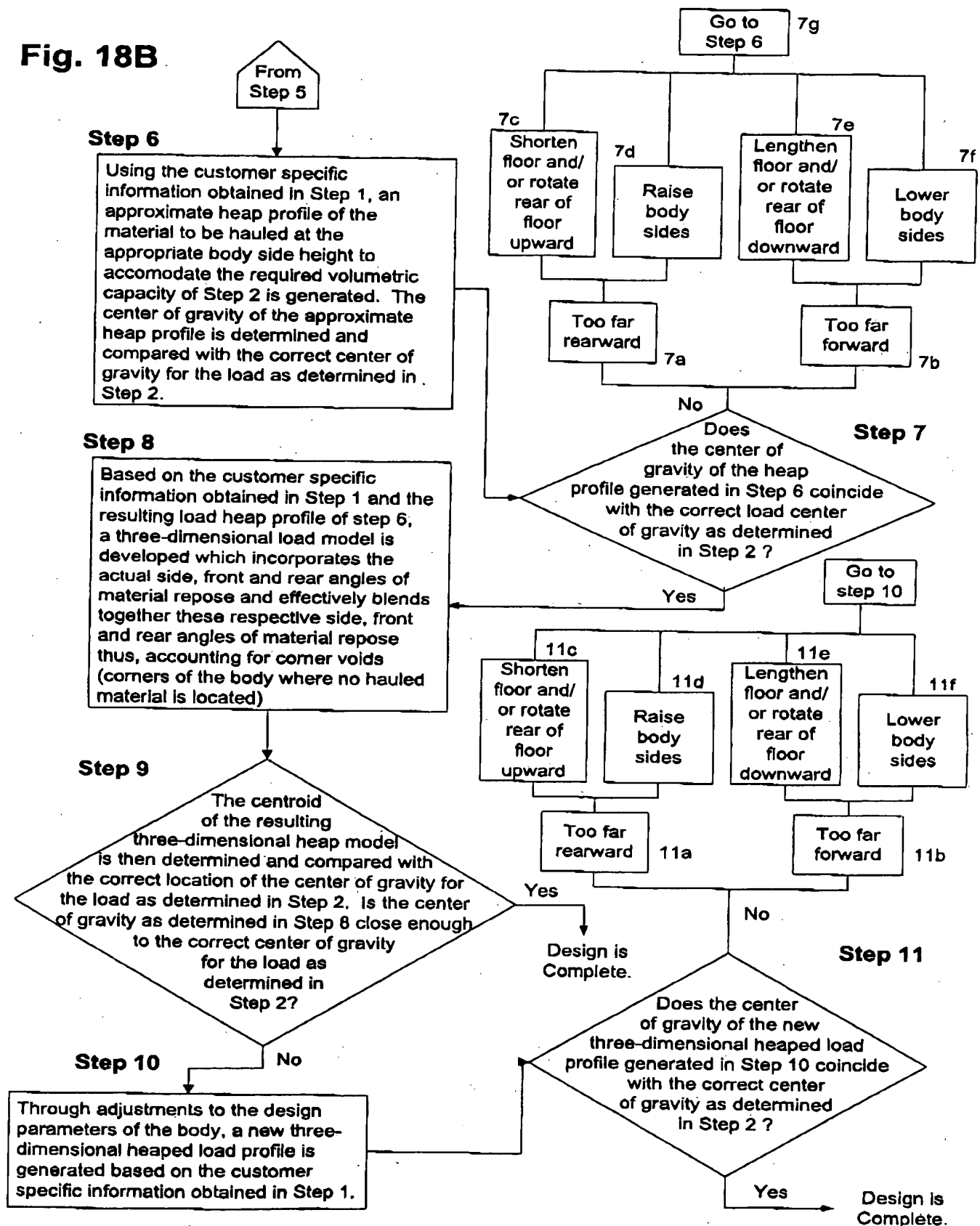


FIG. 17

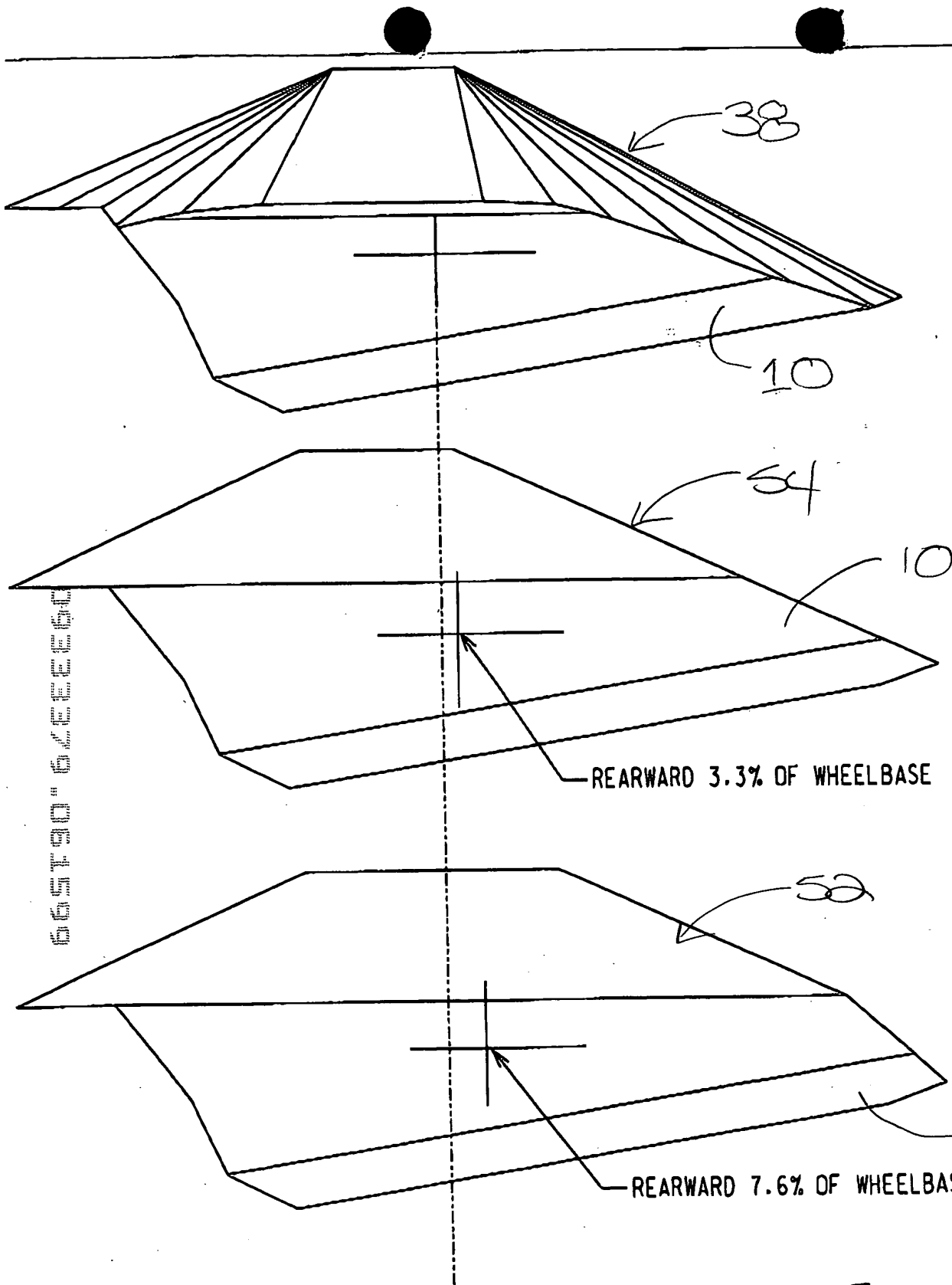


**Fig. 18A**

Fig. 18B



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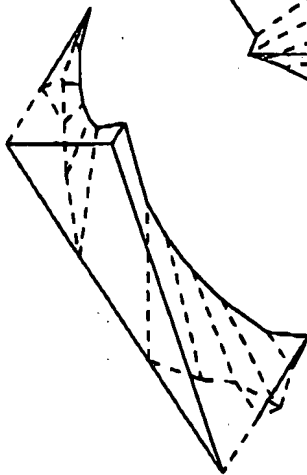
Three Dimensional  
Load Model Of The  
Present Invention

2:1 Heap  
Volumetric Rating  
5.6% Greater Than  
Achievable

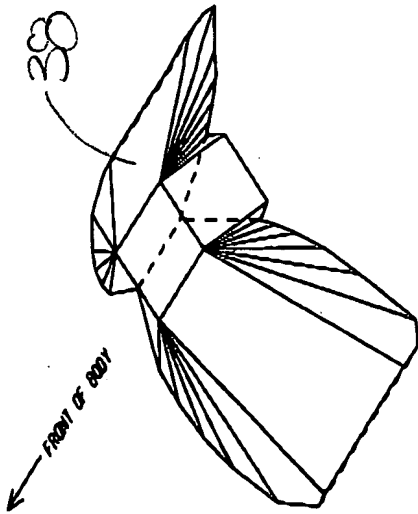
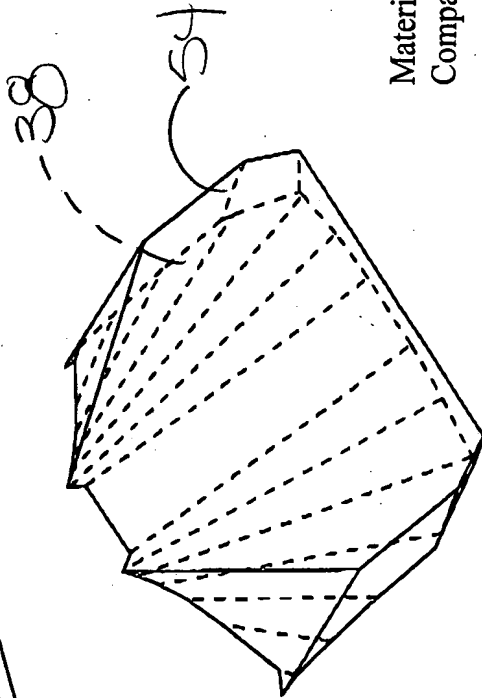
S.A.E. 2:1 Heap  
Volumetric Rating  
13.4% Greater Than  
Achievable

LOCATION OF IDEAL  
HORIZONTAL CENTER  
OF GRAVITY

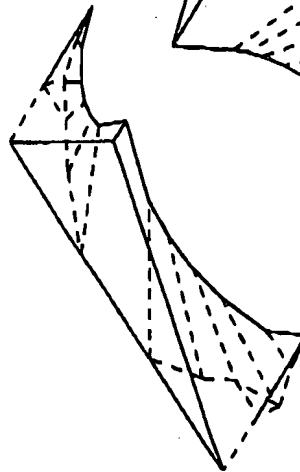
FIG. 20



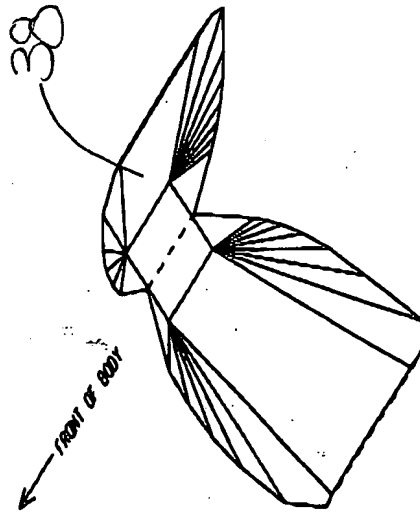
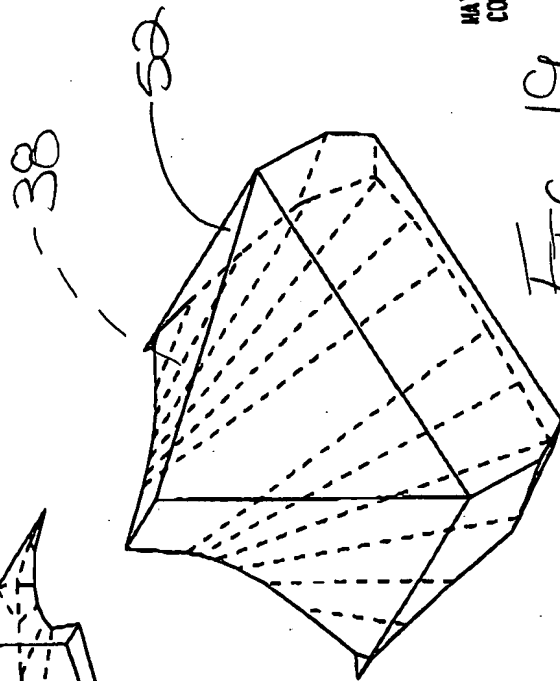
Material Removed By Profiling  
Compared to 2:1 Heap



Material Added By Profiling  
Compared to 2:1 Heap



MATERIAL REMOVED BY PROFILING  
COMPARED TO S.A.E. 2:1 HEAP



MATERIAL ADDED BY PROFILING  
COMPARED TO S.A.E. 2:1 HEAP

FIG. 19

665790" 6/22/66



FIG. 21



FIG. 22